



## NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111235

Mode: Highway

Status: Submitted

### US-421

From/Cross Street: Winston-Salem Northern Beltway

Specific Improvement Type: 1 - Widen Existing Roadway

To: Guilford County Line

Project Category: Statewide Mobility

Length: 5.56

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$69,540,000

#### Description:

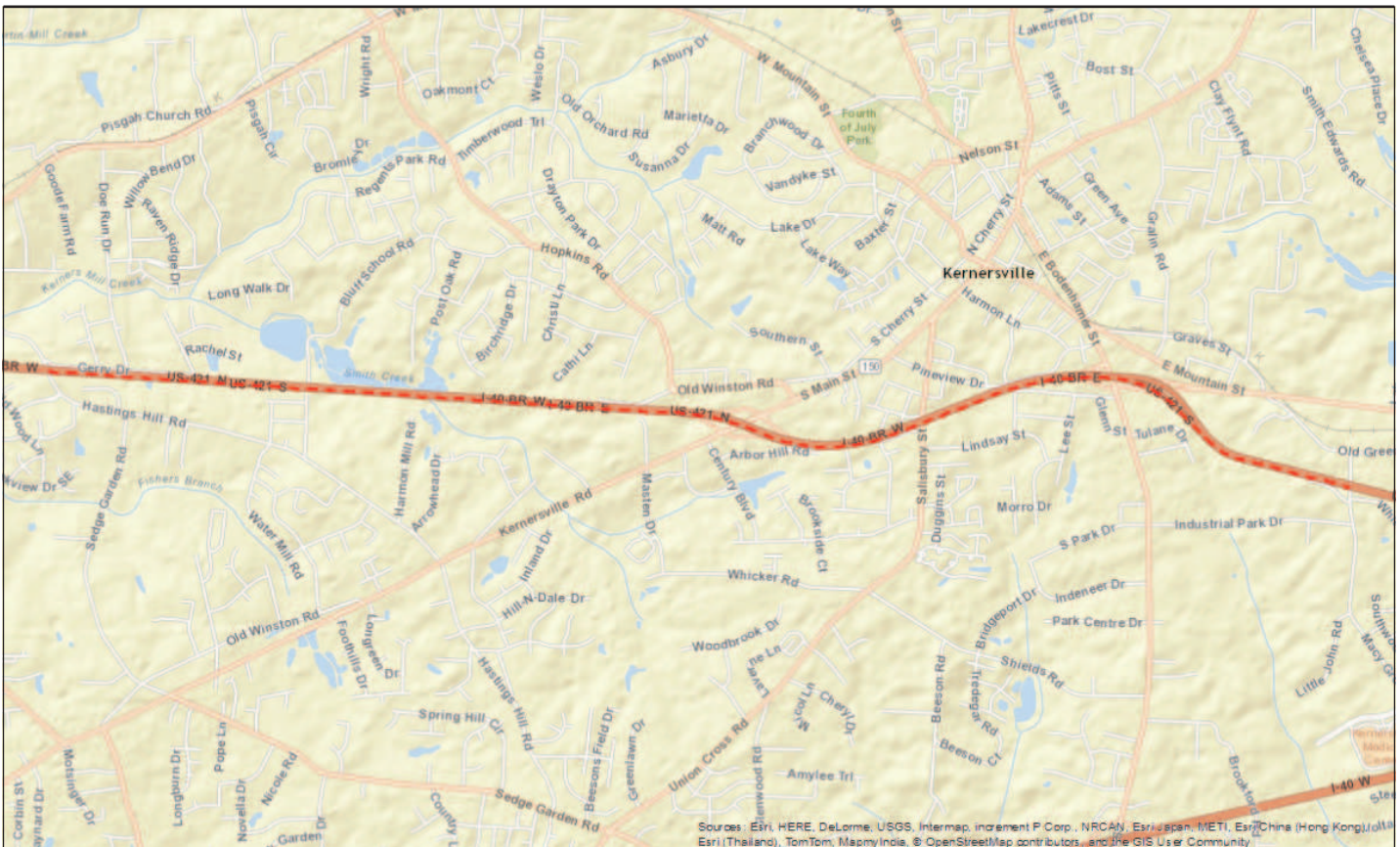
Widen to 6 Lane Freeway.

Division(s): Division 9

County(s): FORSYTH

MPOS(s)/RPO(s): Winston Salem Urban Area MPO

#### Project Location



**Statewide Mobility Total Score: 23.72**

<b>Quantitative Score</b>		<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Multimodal + [Freight & Military] (20%)	15.49	N/A	N/A
[Travel Time] Benefit/Cost (30%)	1.00		
Congestion (V/C) (30%)	58.42		
Safety (10%)	21.51		
Economic Competitiveness (10%)	6.48		
<b>Totals: Weight: 100% Weighted Score: 23.72</b>			

**Regional Impact Total Score: 33.79**

<b>Quantitative Score</b>		<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (25%)	58.42	Percent: 15% Points: 0	Percent: 15% Points: 100
Safety (10%)	21.51		
[Travel Time] Benefit/Cost (25%)	1.00		
Accessibility / Connectivity (10%)	17.85		
<b>Totals: Weight: 70% Weighted Score: 18.79</b>			

**Division Needs Total Score: 14.03**

<b>Quantitative Score</b>		<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (20%)	58.42	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%)	21.51		
[Travel Time] Benefit/Cost (20%)	1.00		
<b>Totals: Weight: 50% Weighted Score: 14.03</b>			

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	60
Length (miles):	5.56
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial- Other Freeway
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	10
Roadway has Curb & Gutter?	No
Volume (AADT):	47541.42
Capacity:	72400.38
Volume/Capacity Ratio:	0.66
% Autos:	93%
% Trucks:	7%
Truck Volume:	3098.23
Crash Density:	18.68
Crash Severity:	36.4
Critical Crash Rate:	9.46
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	21
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	96
Actual Congested Speed:	60.85
Travel Time Index:	0.98

**Project Benefits**

Project Cross-Section:	6B - 6 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders)
Speed Limit:	60
Length (miles):	5.56
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial- Other Freeway
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	3091861.14
Travel Time Savings for 30 Years (Autos):	2890367.64
Travel Time Savings for 30 Years (Trucks):	201493.5
Long-Term Employment:	51
% Change in Economy:	7.87E-05
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 9

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

**Project Ownership****Division**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 9	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>0</b>	<b>0</b>

**MPO/RPO**

<b>MPO/RPO</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Winston Salem Urban Area MPO	100%	100	0
	0%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>100</b>	<b>0</b>

**Project Cost and Source**

Construction Cost:	\$69,540,000	TIP Unit
Right-of-Way Cost:	\$0	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$69,540,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$69,540,000</b>	